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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/031,654	11/13/2001	Elizabeth Jane Acosta	YAMAP0793US	6310	
7590	0 04/30/2003				
Neil A. Duchez Renner, Otto, Boisselle & Sklar 1621 Euclid Avenue			EXAMINER		
			NGO, HUYEN LE		
19th Floor Cleveland, OH	44115	•	· ART UNIT	PAPER NUMBER	
5.			2871	•	
			DATE MAILED: 04/30/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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_		Application No.	Applicant(s)	
000 4 4 0		10/031,654	ACOSTA ET AL.	
	Office Action Summary	Examiner	Art Unit	
	•	Julie-Huyen L. Ngo	2871	
Period f	The MAILING DATE of this communication ap or Reply	pears on the cover sheet wit	h the correspondence address	
THE - Extraording - If th - If N - Fail - Any	MORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.7 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a rep of period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a rely within the statutory minimum of thirty will apply and will expire SIX (6) MONTe, cause the application to become ABA	ply be timely filed (30) days will be considered timely. THS from the mailing date of this communication ANDONED (35 U.S.C. § 133).	ation.
1)	Responsive to communication(s) filed on	·		
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Th	nis action is non-final.		
3) <u>□</u> Disposi	Since this application is in condition for allow closed in accordance with the practice under ion of Claims			its is
4)🛛	Claim(s) 1-33 is/are pending in the application	n.		
	4a) Of the above claim(s) is/are withdra	wn from consideration.		
5)[]	Claim(s) is/are allowed.			
6)[Claim(s) is/are rejected.			
7)	Claim(s) is/are objected to.	·		
-	Claim(s) 1-33 are subject to restriction and/or	election requirement.		
Applicat	ion Papers		,	
9)[The specification is objected to by the Examine	er.		
10)	The drawing(s) filed on is/are: a) acce	pted or b)☐ objected to by th	e Examiner.	
_	Applicant may not request that any objection to the			
11)	The proposed drawing correction filed on		sapproved by the Examiner.	
	If approved, corrected drawings are required in re			
	The oath or declaration is objected to by the Ex	caminer.		
	under 35 U.S.C. §§ 119 and 120			
-	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
a)	☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority document	s have been received.		
	2. Certified copies of the priority document	ts have been received in Ap	plication No	
* (3. Copies of the certified copies of the prio application from the International Bu See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	_	
	Acknowledgment is made of a claim for domest			cation).
	a) The translation of the foreign language pro Acknowledgment is made of a claim for domest	• •		-
Attachmer		•		
2) 🔲 Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Ir	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)	·

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DETAILED ACTION

Election/Restrictions

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

- I. The species of First embodiment drawing to a half-wave retarder and a quarter-wave LC untwisted dark state Φ =0° (figure 11).
- II. The species of Second embodiment drawing to a half-wave retarder and a quarter-wave LC low twist Φ dark state (figure 17).
- III. The species of Third embodiment drawing to an internal quarter-wave retarder and a half-wave LC untwisted dark state Φ =0° (figure 19).
- IV. The species of Fourth embodiment drawing to a specific wavelength retarder and a LC low twist Φ providing the dark state (figures 20a-c).
- V. The species of Fifth embodiment drawing to configurations where the angle (θ_1) between the polarizer and LC layer satisfies θ_2 = θ_1 , where θ_1 is the angle between the polarizer and half-wave retarder, low twist state Φ provides the dark state (figure 24).
- VI. The species of Sixth embodiment drawing to fixed half-wave retarder and variable thickness LC layer with low twist state Φ providing the dark state (figure 29).
- VII. The species of Seventh embodiment drawing to two half-wave retarders and 3/4-wave LC untwisted dark state $\Phi = \lambda/72$) (figure 33).

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VIII. The species of Eighth embodiment drawing to two half-wave retarders and 1/4-wave LC low twist Φ providing the dark state (figure 35).

IX. The species of Ninth embodiment drawing to a (23 λ /72), λ /2 (half-wave) retarder and LC (23 λ /72) untwist dark state Φ =0° (figure 37).

X. The species of Tenth embodiment drawing to an achromatic configuration and LC having half-wave ($\lambda/2$) retarder, quarter-wave retarder and 1/4-wave LC layer (figure 38).

XI. The species of Eleventh embodiment drawing to an achromatic configuration and LC having varying LC layer thickness and high twist dark state (figure 40).

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features as listed above in each Species.

Therefore, Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable.

The reply must also identify ALL the claims and drawings readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Currently, there is no generic claim.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record

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showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Contact Information

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Julie-Huyen L. Ngo whose telephone number is (703) 305-3508. The Examiner can normally be reached on T-Friday.

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If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Mr. Robert H. Kim can be reached at (703) 305-3492. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-4709 for regular communications and (703) 746-4709 for After Final communications. Please contact the Examiner before faxing any paper to the Office.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

April 21, 2003

Patent Examiner
Art Unit 2871

Huyen L'. Vlgo